

1 - 16. (canceled)

17. (new) A system for maintaining qualification of an operator using an authentication recording medium, the system comprising:

an authentication recording medium stores readable identification data and readable/writable skill authenticable data;

a mobile terminal comprises an authentication recording medium read/write device;

a data management server; and

a PC for education comprises an authentication recording medium read/write device, wherein

the data management server comprises a database for data regarding work or operation status and a database for quality management data, and has a function to collect and analyze the uploaded data, make a decision and download the decision contents to the authentication recording medium as skill authentication data,

the PC for education comprises an authentication recording medium data reading/writing application program and an educational application program and a work application program which are programs for educating operator, and has a function to provide educational material for self-learning regarding various operations, and a function to transmit a result of learning performed by the operator to the data management server via a local area network, receive a content of the determination from the data management server via the local area network and additionally record/update the same by the authentication recording medium read/write device to the authentication recording medium as skill authentication data.

18. (new) The system for maintaining qualification of an operator using an authentication recording medium according to claim 17, wherein

the skill authentication data stored in the authentication recording medium includes operation authority for system or device to be managed/maintained, operation qualification

level, expiration data of operation qualification level and contents of operation record including time, number of times and name of apparatus.

19. (new) The system for maintaining qualifications of an operator using an authentication recording medium according to claim 18, wherein

the skill authentication data stored in the authentication recording medium further included data regarding work or operation status such as continuous work time and past quality management data such as operation error.

20. (new) The system for maintaining qualification of an operator using an authentication recording medium according to claim 17, wherein

the mobile terminal has a function to read the data stored in the authentication recording medium by the authentication recording medium read/write device and send the same to the data management server via the communication network, and a function to additionally record or update the data received from the data management server in the authentication recording medium by the authentication recording medium read/write device.

21. (new) The system for maintaining qualification of an operator using an authentication recording medium according to claim 20, wherein

the contents to be downloaded to the authentication recording medium includes operation authority for system of device to be managed/maintained, operation qualification level, expiration data of operation qualification level.

22. (new) The system for maintaining qualification of an operator using an authentication recording medium according to claim 21, wherein

the contents to be downloaded to the authentication recording medium further include data regarding work or operation status such as continuous work time and past quality management data such as operation error.

23. (new) The system for maintaining qualification of an operator using an authentication recording medium according to claim 17, wherein

upon receiving an urgent operation approval data registered by an administrator, the data management server holds a function to download the data via the mobile terminal to the authentication recording medium by the authentication recording medium read/write device.

24. (new) The system for maintaining qualification of an operator using an authentication recording medium according to claim 23, wherein

the system further comprises a maintenance operation terminal for managing/maintaining the system of device to be managed/maintained by using the authentication recording medium,

the maintenance operation terminal comprising the authentication recording medium read/write device, an operation application program and an authentication application program for the authentication recording medium, the terminal has a function to read the data recorded in the authentication recording medium through the authentication recording medium read/write device, confirm identification authentication based on the identification authentication data, and authenticate a certain range of operation based on the skill authentication data; and

after performing maintenance operation, the terminal for maintenance operation has a function to log the contents of an operation record by the operator and to store the contents of the operation record to the authentication recording medium by the authentication recording medium read/write device.